

August 12, 2014

Shimon Mizrahi Rainier Commons LLC 918 S. Horton Street, Suite 1018 Seattle, WA 98134

MANAGEMENT | TRAINING | LAB SERVICES

WWW.NVLLABS.com

Subject: Catch Basin Sampling for IPWP1- During Work

Aqueous and Sediment Sampling

Rainier Commons, LLC

Site Address: 3100 Airport Way S, Seattle, WA

NVL Project#: 2012-494

Dear Mr. Mizrahi:

Rainier Commons, LLC retained NVL Laboratories to conduct the sampling at their Old Rainier Brewery site located at 3100 Airport Way South, Seattle, Washington and this letter has been prepared to convey the results.

NVL Labs conducted the during-work round of sampling on July 1st, 2014. The samples were collected at roughly 1:00 PM. No precipitation had occurred that day (http://www.nws.noaa.gov). NVL Labs proceeded to open and inspect the catch basins referred to as CB1 and CB3 as well as the manhole referred to as MH6 on the attached figure (attachment A). These stormwater collection points are located west of building 13, where the work associated with the IPWP was in progress.

At the time of the sampling, following removal of the storm drain grates, CB1 was found to be dry with no stormwater present, but with adequate sediment present. Both water and sediment adequate for sampling were present in CB3. MH6 was found to have neither water nor sediment adequate for sampling. Accordingly, a sediment sample was collected from CB1, both sediment and aqueous samples were collected from CB3, and no samples were collected from MH6. Photos of the exposed catch basins and manhole were taken to document their condition. (See Attachment B)

| Sampling Location | Stormwater Present? | Aqueous Sample Collected? | Sediment Present? | Sediment Sample Collected? |
|----------------------|---------------------|---------------------------------|----------------------|-------------------------------|
| Catch Basin 1 | No | No | Yes | Yes |
| Catch Basin 3 | Yes | Yes | Yes | Yes |
| Man Hole 6 | No | No | No | No |

Samples were collected as per the Condition 6: Catch Basin Sampling Plan for IPWP1.

The samples were transported to Fremont Analytical Laboratories under a chain-of-custody protocol before being analyzed for PCBs by EPA Method 8082. Additionally, the sediment samples were also analyzed for the presence of the metals contained in the blasting media being utilized for the abatement work; Chromium (Cr), Copper (Cu), Nickel (Ni), and Zinc (Zn).

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227) 4708 Aurora Avenue North | Seattle, WA 98103-6516



Attached to this letter are a copy of the laboratory reports dated July 16th, 2014, and the site plan that shows the sample locations. (Attachments C and A)

Aqueous Sample Results:

Laboratory analysis of the aqueous sample CB3 did not detect PCB Arochlors in the aqueous sample. Therefore, there were no exceedances of the aqueous screening limit of 0.1 micrograms per liter (mg/L) for total PCB Arochlors.

| Sampling Location | Aqueous PCB Screening Limit (Total Alochors) | Sample Result | Result Above Screening Limit? |
|-------------------|--|---------------|----------------------------------|
| Catch Basin 3 | .1 mg/L | Non Detect | NO |

Sediment Sample Results:

PCBs:

Laboratory analysis of the sediment samples from CB1 and CB3 found detectable levels of PCB Arochlors in the samples collected from both CB1 and CB3. Total PCB concentrations of 8.35 parts per million (ppm) were detected in the sample collected from CB1. Total PCB concentrations of 5.74 ppm were detected in the sample collected from CB3. Both of these sediment PCB concentrations are above the sediment screening limit of 1.0 ppm for total PCB Arochlors.

| Sampling Location | Sediment PCB Screening Limit (Total Alochors) | Sample Result Total Alochors | Result Above Screening Limit? |
|-------------------|---|---------------------------------|----------------------------------|
| Catch Basin 1 | 1.0 ppm | 8.35 ppm | YES |
| Catch Basin 3 | 1.0 ppm | 5.74 ppm | YES |

The total PCB concentrations were consistent with or not notably higher in magnitude than the prework sampling round which showed concentrations of 9.88 ppm in CB1 and 4.33 ppm in CB3.



Metals:

Laboratory analysis of the sediment samples from CB1 and CB3 found detectable levels of metals in the samples collected from both CB1 and CB3.

Chromium (Cr)

| Sampling Location | Sample Result |
|-------------------|---------------|
| Catch Basin 1 | 109 ppm |
| Catch Basin 3 | 92.9 ppm |

Copper (Cu)

| Sampling Location | Sample Result |
|-------------------|---------------|
| Catch Basin 1 | 181 ppm |
| Catch Basin 3 | 211 ppm |

Nickel (Ni)

| Sampling Location | Sample Result |
|-------------------|---------------|
| Catch Basin 1 | 62.4 ppm |
| Catch Basin 3 | 70.3 ppm |

Zinc (Zn)

| Sampling Location | Sample Result |
|-------------------|---------------|
| Catch Basin 1 | 912 ppm |
| Catch Basin 3 | 1,330 ppm |

Prepared By

Marcus Gladden Industrial Hygienist NVL Laboratories Reviewed By

Munaf Khan Project Manager

Laboratory Director / President

Attachments:

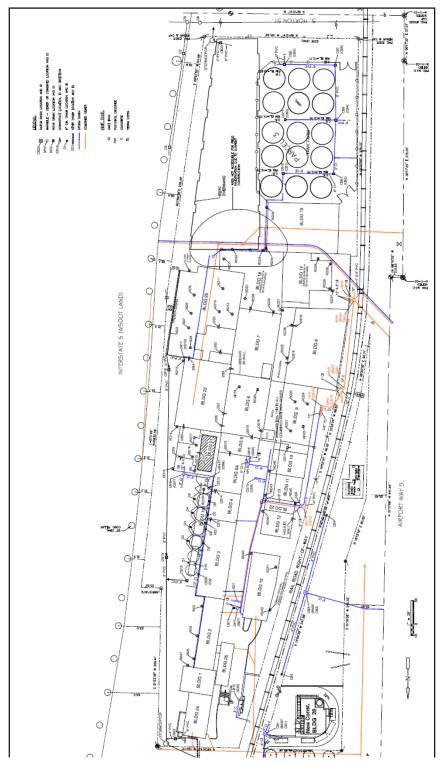
A: Site Map with Sample Locations

B: Site Observation Photos

C: Laboratory Testing Report, Fremont Analytical Labs Batch No. 1407073



Attachment A: Site Map



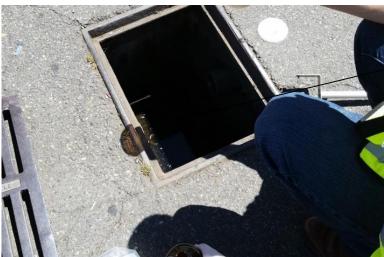
Stormwater and Sediment Sampling Rainier Commons, LLC Project No. 2012-494 August 12th, 2014



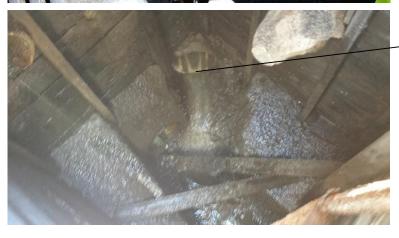
Attachment B: Site Observation Photos



Catch Basin 1
No standing water
was observed in
catch basin 1. A
sediment sample was
collected here.



Catch Basin 3
Standing water was observed in catch basin 3.



Man Hole 6
No standing water or significant accumulation of sediment was found in MH6 at the time of sampling.

Stormwater and Sediment Sampling Rainier Commons, LLC Project No. 2012-494 August 12th, 2014



Attachment C: Laboratory Testing Report, Fremont Analytical Labs Batch No. 1407073



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

NVL Labs, Inc. Munaf Khan 4708 Aurora Ave. N. Seattle, WA 98103

RE: Rainier Commons Lab ID: 1407073

July 16, 2014

Attention Munaf Khan:

Fremont Analytical, Inc. received 3 sample(s) on 7/8/2014 for the analyses presented in the following report.

Polychlorinated Biphenyls (PCB) by EPA 8082 Sample Moisture (Percent Moisture) Total Metals by EPA Method 6020

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

MGR

Michael Dee

Sr. Chemist / Principal



Date: 07/16/2014

07/08/2014 4:07 PM

CLIENT: NVL Labs, Inc. Work Order Sample Summary

Project: Rainier Commons

1407073

7114-CB3-A

Lab Order:

1407073-003

 Lab Sample ID
 Client Sample ID
 Date/Time Collected
 Date/Time Received

 1407073-001
 7114-CB1-S
 07/01/2014 12:00 PM
 07/08/2014 4:07 PM

 1407073-002
 7114-CB3-S
 07/01/2014 12:00 PM
 07/08/2014 4:07 PM

07/01/2014 12:00 PM



Case Narrative

WO#: **1407073**Date: **7/16/2014**

CLIENT: NVL Labs, Inc.

Project: Rainier Commons

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Page 3 of 14



Analytical Report

WO#: **1407073**Date Reported: **7/16/2014**

Client: NVL Labs, Inc. Collection Date: 7/1/2014 12:00:00 PM

Project: Rainier Commons

Lab ID: 1407073-001 **Matrix**: Soil

Client Sample ID: 7114-CB1-S

| Analyses | Result | RL | Qual | Units | DF | Da | ate Analyzed |
|------------------------------|-----------------|----------|------|-----------|---------|--------|------------------|
| Polychlorinated Biphenyls (P | CB) by EPA 8082 | 2 | | Batch | n ID: 8 | 3071 | Analyst: DB |
| Aroclor 1016 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1221 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1232 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1242 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1248 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1254 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1260 | 8.35 | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1262 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Aroclor 1268 | ND | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Total PCBs | 8.35 | 0.213 | | mg/Kg-dry | 1 | 7/15 | /2014 7:00:00 PM |
| Surr: Decachlorobiphenyl | 128 | 50.2-159 | | %REC | 1 | 7/15 | /2014 7:00:00 PM |
| Surr: Tetrachloro-m-xylene | 89.6 | 60.3-134 | | %REC | 1 | 7/15 | /2014 7:00:00 PM |
| Total Metals by EPA Method (| <u>6020</u> | | | Batch | n ID: 8 | 3053 | Analyst: TN |
| Chromium | 109 | 0.167 | | mg/Kg-dry | 1 | 7/9/2 | 2014 5:17:02 PM |
| Copper | 181 | 0.334 | | mg/Kg-dry | 1 | 7/9/2 | 2014 5:17:02 PM |
| Nickel | 62.4 | 0.167 | | mg/Kg-dry | 1 | 7/9/2 | 2014 5:17:02 PM |
| Zinc | 912 | 0.835 | | mg/Kg-dry | 1 | 7/9/2 | 2014 5:17:02 PM |
| Sample Moisture (Percent Mo | oisture) | | | Batch | ı ID: I | R15475 | Analyst: KZ |
| Percent Moisture | 55.3 | | | wt% | 1 | 7/9/2 | 2014 8:51:37 AM |

Qualifiers: B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

RL Reporting Limit

D Dilution was required

H Holding times for preparation or analysis exceeded

ND Not detected at the Reporting Limit



Analytical Report

WO#: **1407073**Date Reported: **7/16/2014**

Client: NVL Labs, Inc. Collection Date: 7/1/2014 12:00:00 PM

Project: Rainier Commons

Lab ID: 1407073-002 **Matrix**: Soil

Client Sample ID: 7114-CB3-S

| Analyses | Result RL Qual Units DF | | Da | ate Analyzed | | |
|------------------------------|-------------------------|----------|-----------|--------------|--------|------------------|
| Polychlorinated Biphenyls (P | CB) by EPA 808 | <u>2</u> | Batcl | ı ID: | 8071 | Analyst: DB |
| Aroclor 1016 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1221 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1232 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1242 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1248 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1254 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1260 | 5.74 | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1262 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Aroclor 1268 | ND | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Total PCBs | 5.74 | 0.298 | mg/Kg-dry | 1 | 7/15 | /2014 7:39:00 PM |
| Surr: Decachlorobiphenyl | 106 | 50.2-159 | %REC | 1 | 7/15 | /2014 7:39:00 PM |
| Surr: Tetrachloro-m-xylene | 87.5 | 60.3-134 | %REC | 1 | 7/15 | /2014 7:39:00 PM |
| Total Metals by EPA Method | <u>6020</u> | | Batch | ı ID: | 8053 | Analyst: TN |
| Chromium | 92.9 | 0.264 | mg/Kg-dry | 1 | 7/9/2 | 2014 5:20:28 PM |
| Copper | 211 | 0.528 | mg/Kg-dry | 1 | 7/9/2 | 2014 5:20:28 PM |
| Nickel | 70.3 | 0.264 | mg/Kg-dry | 1 | 7/9/2 | 2014 5:20:28 PM |
| Zinc | 1,330 | 1.32 | mg/Kg-dry | 1 | 7/9/2 | 2014 5:20:28 PM |
| Sample Moisture (Percent Mo | <u>visture)</u> | | Batch | ı ID: | R15475 | Analyst: KZ |
| Percent Moisture | 71.5 | | wt% | 1 | 7/9/2 | 2014 8:51:37 AM |

Qualifiers: B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

RL Reporting Limit

D Dilution was required

H Holding times for preparation or analysis exceeded

ND Not detected at the Reporting Limit



Analytical Report

WO#: 1407073 Date Reported: 7/16/2014

Collection Date: 7/1/2014 12:00:00 PM Client: NVL Labs, Inc.

Matrix: Water

Project: Rainier Commons Lab ID: 1407073-003

Client Sample ID: 7114-CB3-A

| Analyses | Result | RL | Quai | Units | DF | Date Analyzed |
|---------------------------------|------------|----------|------|-------|------------|-----------------------|
| Polychlorinated Biphenyls (PCB) | by EPA 808 | <u>2</u> | | Bato | h ID: 8079 | Analyst: NG |
| Aroclor 1016 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1221 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1232 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1242 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1248 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1254 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1260 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1262 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Aroclor 1268 | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Total PCBs | ND | 0.222 | | μg/L | 1 | 7/14/2014 10:49:00 AM |
| Surr: Decachlorobiphenyl | 95.1 | 45.1-140 | | %REC | 1 | 7/14/2014 10:49:00 AM |
| Surr: Tetrachloro-m-xylene | 59.0 | 42.1-101 | | %REC | 1 | 7/14/2014 10:49:00 AM |

Qualifiers: В Analyte detected in the associated Method Blank

> Е Value above quantitation range

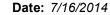
Analyte detected below quantitation limits

RL Reporting Limit

Dilution was required D

Holding times for preparation or analysis exceeded Н

ND Not detected at the Reporting Limit





Work Order: 1407073

QC SUMMARY REPORT

CLIENT: NVL Labs, Inc.

Project: Rainier Commons

Total Metals by EPA Method 6020

| Sample ID: MB-8053 | SampType: MBLK | | | Units: mg/Kg | | Prep Da | te: 7/8/201 | 4 | RunNo: 15 | 500 | |
|--------------------|----------------|-------|-----------|--------------|------|-------------|--------------------|-------------|------------|----------|------|
| Client ID: MBLKS | Batch ID: 8053 | | | | | Analysis Da | te: 7/9/201 | 4 | SeqNo: 313 | 3765 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | ND | 0.100 | | | | | | | | | |
| Copper | ND | 0.200 | | | | | | | | | |

| Ооррсі | ND | 0.200 |
|--------|----|-------|
| Nickel | ND | 0.100 |
| Zinc | ND | 0.400 |

| Sample ID: LCS-8053 | SampType: LCS | | | Units: mg/Kg | | Prep Dat | e: 7/8/201 | 4 | RunNo: 155 | 00 | |
|---------------------|----------------------|-------|-----------|--------------|------|--------------|-------------------|-------------|------------|----------|------|
| Client ID: LCSS | Batch ID: 8053 | | | | | Analysis Dat | e: 7/9/201 | 4 | SeqNo: 313 | 766 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 75.6 | 0.100 | 62.90 | 0 | 120 | 67.9 | 132 | | | | |
| Copper | 85.1 | 0.200 | 84.20 | 0 | 101 | 74 | 125.9 | | | | |
| Nickel | 317 | 0.100 | 301.0 | 0 | 105 | 74.4 | 125.6 | | | | |
| Zinc | 461 | 0.400 | 425.0 | 0 | 108 | 72.7 | 127.3 | | | | |

| Sample ID: 1407068-001ADUP | SampType: DUP | | | Units: mg/ | Kg-dry | Prep Da | te: 7/8/201 | 4 | RunNo: 155 | 500 | |
|----------------------------|----------------------|--------|-----------|-------------|--------|-------------|--------------------|-------------|------------|----------|------|
| Client ID: BATCH | Batch ID: 8053 | | | | | Analysis Da | te: 7/9/201 | 4 | SeqNo: 313 | 3768 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 47.7 | 0.0839 | | | | | | 50.71 | 6.21 | 30 | |
| Copper | 30.7 | 0.168 | | | | | | 33.07 | 7.31 | 30 | |
| Nickel | 50.1 | 0.0839 | | | | | | 51.45 | 2.75 | 30 | |
| Zinc | 65.8 | 0.336 | | | | | | 68.61 | 4.20 | 30 | |

Qualifiers: B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

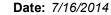
Dilution was required

Analyte detected below quantitation limits

RL Reporting Limit

Value above quantitation range

ND Not detected at the Reporting Limit





Work Order: 1407073

Project:

QC SUMMARY REPORT

CLIENT: NVL Labs, Inc.

Total Metals by EPA Method 6020

| Sample ID: 1 | 1407068-001AMS | SampType: | MS | | | Units: mg | /Kg-dry | Prep Dat | e: 7/8/201 | 4 | RunNo: 155 | 500 | |
|--------------|----------------|-----------|-------|--------|-----------|-------------|---------|--------------|-------------------|-------------|------------|----------|------|
| Client ID: | ВАТСН | Batch ID: | 8053 | | | | | Analysis Dat | e: 7/9/201 | 4 | SeqNo: 313 | 3770 | |
| Analyte | | R | esult | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | | | 89.3 | 0.0833 | 41.64 | 50.71 | 92.7 | 75 | 125 | | | | |
| Copper | | | 68.9 | 0.167 | 41.64 | 33.07 | 86.0 | 75 | 125 | | | | |
| Nickel | | | 89.8 | 0.0833 | 41.64 | 51.45 | 92.2 | 75 | 125 | | | | |
| Zinc | | | 104 | 0.333 | 41.64 | 68.61 | 85.6 | 75 | 125 | | | | |

| Sample ID: 1407068-001AMSD | SampType: MSD | | | Units: mg/l | Kg-dry | Prep Da | te: 7/8/201 | 4 | RunNo: 155 | 500 | |
|----------------------------|----------------|--------|-----------|-------------|--------|--------------|--------------------|-------------|------------|----------|------|
| Client ID: BATCH | Batch ID: 8053 | | | | | Analysis Dat | te: 7/9/201 | 4 | SeqNo: 313 | 3771 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium | 93.4 | 0.0846 | 42.28 | 50.71 | 101 | 75 | 125 | 89.33 | 4.45 | 30 | |
| Copper | 68.3 | 0.169 | 42.28 | 33.07 | 83.4 | 75 | 125 | 68.90 | 0.808 | 30 | |
| Nickel | 90.7 | 0.0846 | 42.28 | 51.45 | 92.8 | 75 | 125 | 89.85 | 0.915 | 30 | |
| Zinc | 106 | 0.338 | 42.28 | 68.61 | 88.6 | 75 | 125 | 104.3 | 1.71 | 30 | |

Qualifiers: B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

Dilution was required

Analyte detected below quantitation limits

L Reporting Limit

E Value above quantitation range

ND Not detected at the Reporting Limit

Date: 7/16/2014



R RPD outside accepted recovery limits

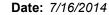
Work Order: 1407073

QC SUMMARY REPORT

CLIENT: NVL Labs, Inc.

| Sample ID: LCS-8071 | SampType: LCS | | | Units: mg/Kg | | Prep Date | : 7/9/201 | 4 | RunNo: 155 | 587 | |
|-----------------------------------|----------------------|-------|-----------|---------------|------|---------------|-------------|-------------|-------------------|----------|------|
| Client ID: LCSS | Batch ID: 8071 | | | | | Analysis Date | : 7/15/20 | 14 | SeqNo: 315 | 5777 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 0.716 | 0.100 | 1.000 | 0 | 71.6 | 65.8 | 117 | | | | |
| Aroclor 1260 | 0.649 | 0.100 | 1.000 | 0 | 64.9 | 57 | 134 | | | | |
| Surr: Decachlorobiphenyl | 46.0 | | 50.00 | | 92.1 | 50.2 | 159 | | | | |
| Surr: Tetrachloro-m-xylene | 44.3 | | 50.00 | | 88.6 | 60.3 | 134 | | | | |
| Sample ID: 1407073-001ADUP | SampType: DUP | | | Units: mg/Kg- | dry | Prep Date | e: 7/9/2014 | 4 | RunNo: 155 | 587 | |
| Client ID: 7114-CB1-S | Batch ID: 8071 | | | | | Analysis Date | : 7/15/20 | 14 | SeqNo: 315 | 5779 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1221 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1232 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1242 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1248 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1254 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1260 | 7.66 | 0.202 | | | | | | 8.347 | 8.54 | 30 | |
| Aroclor 1262 | ND | 0.202 | | | | | | 0 | | 30 | |
| Aroclor 1268 | ND | 0.202 | | | | | | 0 | | 30 | |
| Total PCBs | 7.66 | 0.202 | | | | | | 8.347 | 8.54 | 30 | |
| Surr: Decachlorobiphenyl | 74.1 | | 101.1 | | 73.3 | 50.2 | 159 | | 0 | | |
| Surr: Tetrachloro-m-xylene | 83.1 | | 101.1 | | 82.2 | 60.3 | 134 | | 0 | | |
| Sample ID: MB-8071 | SampType: MBLK | | | Units: mg/Kg | | Prep Date | e: 7/9/2014 | 4 | RunNo: 155 | 587 | |
| Client ID: MBLKS | Batch ID: 8071 | | | | | Analysis Date | : 7/15/20 | 14 | SeqNo: 315 | 5783 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | ND | 0.100 | | | | | | | | | |
| Aroclor 1221 | ND | 0.100 | | | | | | | | | |

RL Reporting Limit





Work Order: 1407073

Project:

QC SUMMARY REPORT

CLIENT: NVL Labs, Inc.

Polychlorinated Biphenyls (PCB) by EPA 8082

| Sample ID: MB-8071 | SampType: MBLK | | | Units: mg/Kg | | Prep Da | te: 7/9/20 1 | 14 | RunNo: 15 | 587 | |
|----------------------------|----------------|-------|-----------|--------------|------|-------------|---------------------|-------------|------------------|----------|------|
| Client ID: MBLKS | Batch ID: 8071 | | | | | Analysis Da | te: 7/15/2 0 |)14 | SeqNo: 31 | 5783 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1232 | ND | 0.100 | | | | | | | | | |
| Aroclor 1242 | ND | 0.100 | | | | | | | | | |
| Aroclor 1248 | ND | 0.100 | | | | | | | | | |
| Aroclor 1254 | ND | 0.100 | | | | | | | | | |
| Aroclor 1260 | ND | 0.100 | | | | | | | | | |
| Aroclor 1262 | ND | 0.100 | | | | | | | | | |
| Aroclor 1268 | ND | 0.100 | | | | | | | | | |
| Total PCBs | ND | 0.100 | | | | | | | | | |
| Surr: Decachlorobiphenyl | 49.7 | | 50.00 | | 99.3 | 50.2 | 159 | | | | |
| Surr: Tetrachloro-m-xylene | 46.1 | | 50.00 | | 92.2 | 60.3 | 134 | | | | |

| Sample ID: 1407073-002AMS | SampType: MS | | | Units: mg/l | Kg-dry | Prep Da | te: 7/9/201 | 4 | RunNo: 15 | 587 | |
|----------------------------|----------------|-------|-----------|-------------|--------|-------------|--------------------|-------------|------------------|----------|------|
| Client ID: 7114-CB3-S | Batch ID: 8071 | | | | | Analysis Da | te: 7/15/20 | 14 | SeqNo: 318 | 5784 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 4.27 | 0.307 | 3.072 | 0 | 139 | 61.7 | 139 | | | | |
| Aroclor 1260 | 7.00 | 0.307 | 3.072 | 6.085 | 29.9 | 63.1 | 138 | | | | S |
| Surr: Decachlorobiphenyl | 170 | | 153.6 | | 111 | 50.2 | 159 | | | | |
| Surr: Tetrachloro-m-xylene | 146 | | 153.6 | | 95.1 | 60.3 | 134 | | | | |

Analyte detected in the associated Method Blank Qualifiers:

Holding times for preparation or analysis exceeded

RPD outside accepted recovery limits

Dilution was required

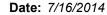
Analyte detected below quantitation limits

Reporting Limit

E Value above quantitation range

Not detected at the Reporting Limit

S - Spike recovery indicates a possible matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).





Work Order: 1407073

Project:

QC SUMMARY REPORT

CLIENT: NVL Labs, Inc.

Polychlorinated Biphenyls (PCB) by EPA 8082

| Sample ID: MB-8079 | SampType: MBLK | | | Units: µg/L | | Prep Dat | e: 7/10/2 0 | 14 | RunNo: 158 | 574 | |
|----------------------------|----------------|--------|---------|-------------|------|--------------|--------------------|-------------|------------|----------|------|
| Client ID: MBLKW | Batch ID: 8079 | | | | | Analysis Dat | e: 7/14/20 | 14 | SeqNo: 315 | 563 | |
| Analyte | Result | RL SPK | value S | PK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | ND | 0.200 | | | | | | | | | |
| Aroclor 1221 | ND | 0.200 | | | | | | | | | |
| Aroclor 1232 | ND | 0.200 | | | | | | | | | |
| Aroclor 1242 | ND | 0.200 | | | | | | | | | |
| Aroclor 1248 | ND | 0.200 | | | | | | | | | |
| Aroclor 1254 | ND | 0.200 | | | | | | | | | |
| Aroclor 1260 | ND | 0.200 | | | | | | | | | |
| Aroclor 1262 | ND | 0.200 | | | | | | | | | |
| Aroclor 1268 | ND | 0.200 | | | | | | | | | |
| Total PCBs | ND | 0.200 | | | | | | | | | |
| Surr: Decachlorobiphenyl | 299 | | 400.0 | | 74.8 | 45.1 | 140 | | | | |
| Surr: Tetrachloro-m-xylene | 145 | | 400.0 | | 36.2 | 42.1 | 101 | | | | S |
| NOTES: | | | | | | | | | | | |

S - Surrogate outside recovery limits. Minimum method criterion of one surrogate within established recovery limits was met.

| Sample ID: LCS-8079 | SampType: LCS | | | Units: µg/L | | Prep Da | te: 7/10/20 | 14 | RunNo: 15 | 574 | |
|----------------------------|----------------|-------|-----------|-------------|------|-------------|--------------------|-------------|------------|----------|------|
| Client ID: LCSW | Batch ID: 8079 | | | | | Analysis Da | te: 7/14/20 | 14 | SeqNo: 318 | 5564 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 1.36 | 0.200 | 2.000 | 0 | 67.8 | 41.4 | 118 | | | | |
| Aroclor 1260 | 1.54 | 0.200 | 2.000 | 0 | 77.0 | 56 | 119 | | | | |
| Surr: Decachlorobiphenyl | 436 | | 400.0 | | 109 | 45.1 | 140 | | | | |
| Surr: Tetrachloro-m-xylene | 228 | | 400.0 | | 57.0 | 42.1 | 101 | | | | |

Qualifiers: B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded J

R RPD outside accepted recovery limits

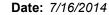
Dilution was required

Analyte detected below quantitation limits

L Reporting Limit

E Value above quantitation range

ND Not detected at the Reporting Limit





Work Order: 1407073

Project:

QC SUMMARY REPORT

CLIENT: NVL Labs, Inc.

Polychlorinated Biphenyls (PCB) by EPA 8082

| Sample ID: 1407073-003AMS | SampType: MS | | | Units: µg/L | | Prep Da | te: 7/10/20 | 14 | RunNo: 155 | 574 | |
|----------------------------|----------------|-------|-----------|-------------|------|-------------|--------------------|-------------|-------------------|----------|------|
| Client ID: 7114-CB3-A | Batch ID: 8079 | | | | | Analysis Da | te: 7/14/20 | 14 | SeqNo: 315 | 5567 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | 1.59 | 0.222 | 2.222 | 0 | 71.7 | 45.5 | 118 | | | | |
| Aroclor 1260 | 1.73 | 0.222 | 2.222 | 0 | 78.1 | 50.8 | 129 | | | | |
| Surr: Decachlorobiphenyl | 365 | | 444.4 | | 82.2 | 45.1 | 140 | | | | |
| Surr: Tetrachloro-m-xylene | 248 | | 444.4 | | 55.9 | 42.1 | 101 | | | | |

| Sample ID: 1407096-001BDUP | SampType: DUP | | | Units: µg/L | | Prep Dat | te: 7/10/20 | 14 | RunNo: 158 | 574 | |
|-----------------------------------|----------------------|-------|-----------|-------------|------|--------------|--------------------|-------------|------------|----------|------|
| Client ID: BATCH | Batch ID: 8079 | | | | | Analysis Dat | e: 7/14/20 | 114 | SeqNo: 315 | 5569 | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aroclor 1016 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1221 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1232 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1242 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1248 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1254 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1260 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1262 | ND | 0.327 | | | | | | 0 | | 30 | |
| Aroclor 1268 | ND | 0.327 | | | | | | 0 | | 30 | |
| Total PCBs | ND | 0.327 | | | | | | 0 | | 30 | |
| Surr: Decachlorobiphenyl | 479 | | 653.6 | | 73.4 | 45.1 | 140 | | 0 | | |
| Surr: Tetrachloro-m-xylene | 335 | | 653.6 | | 51.3 | 42.1 | 101 | | 0 | | |

Qualifiers: B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

R RPD outside accepted recovery limits

Dilution was required

Analyte detected below quantitation limits

RL Reporting Limit

E Value above quantitation range

ND Not detected at the Reporting Limit



Sample Log-In Check List

| С | lient Name: | NVL | Work Order Number: | 1407073 | |
|-----|-------------------|---|--------------------|--------------|----------------|
| L | ogged by: | Clare Griggs | Date Received: | 7/8/2014 4 | :07:00 PM |
| Cha | ain of Custo | <u>ody</u> | | | |
| 1. | Is Chain of Cu | ustody complete? | Yes 🗹 | No \square | Not Present |
| 2. | How was the | sample delivered? | <u>Client</u> | | |
| Log | <u>ı In</u> | | | | |
| | Coolers are p | resent? | Yes 🗹 | No \square | NA 🗆 |
| | | | _ | | |
| 4. | Shipping cont | ainer/cooler in good condition? | Yes 🗸 | No 🗌 | |
| 5. | Custody seals | s intact on shipping container/cooler? | Yes | No 🗌 | Not Required 🗹 |
| 6. | Was an attem | apt made to cool the samples? | Yes 🗹 | No \square | NA 🗌 |
| | | | | | |
| 7. | Were all coole | ers received at a temperature of >0°C to 10.0°C | Yes 🗸 | No 🗌 | NA 📙 |
| 8. | Sample(s) in p | proper container(s)? | Yes 🗸 | No 🗌 | |
| 9. | Sufficient sam | nple volume for indicated test(s)? | Yes 🗸 | No \square | |
| 10 | Are samples p | properly preserved? | Yes 🗸 | No 🗌 | |
| 11. | . Was preserva | itive added to bottles? | Yes | No 🗹 | NA \square |
| 12 | le the headen | ace in the VOA vials? | Yes | No \square | NA 🗹 |
| | | es containers arrive in good condition(unbroken)? | Yes 🗹 | No \square | |
| | | ork match bottle labels? | Yes 🗹 | No \square | |
| 17. | . 2000 paper | | . 33 | | |
| 15 | Are matrices | correctly identified on Chain of Custody? | Yes 🗸 | No \square | |
| 16 | . Is it clear wha | t analyses were requested? | Yes 🗹 | No \square | |
| 17 | . Were all holdi | ing times able to be met? | Yes 🗹 | No \square | |
| Spe | ecial Handli | ing (if applicable) | | | |
| _ | | tified of all discrepancies with this order? | Yes | No 🗌 | NA 🗹 |
| | Person I | Notified: Date: | | | |
| | By Who | | ■ eMail Phone | Fax | In Person |
| | Regardir | | | | |
| | | structions: | | | |
| 19 | Additional rem | narks: | | | |
| . • | | | | | |

Item Information

| Item # | Temp °C | Condition | | |
|--------|---------|-----------|--|--|
| Cooler | 8.0 | Good | | |
| Sample | 13.5 | | | |

| Fre | mor | nt | | | | | ď | nain of Custody Record |
|---|---|--------------------------------|---------------|---|---|-----------------|-----------------------------|--|
| 3600 Fremont Ave N. Seattle, WA 98103 Client: NVL | Analyti Tel: 206-352-379 Fax: 206-352-71 LABS AUKORA / WA 98 k | 90 78 402 N 23 Tel: 2 | Date: 7 | Project Location Collect | Page | WICE DO AIRP | Commons long UA Uppen | 407073 - or: _ (- w S SATTLE WA 98134 |
| Sample Name | Sample Date | Sample Type Time (Metri | | /// | | | /// | Comments/Depth |
| 17114 - CB1 - S | 7/1/14 | 12:00 SOIL | | | X | XT | | |
| 27114 - CB3 -S | | SOIL | | | X | XT | | |
| 37114 - CB3 - A | 4 | ¥ 140 | | | X | 1/1 | | Causana a ma |
| 4 | | | | | | | | COMPOSITE BOTH BOTTLE |
| | | | 1 | | | | | 1+2 for SAMPLE A |
| 5 | | | | | | | | WELL AS M.S. SPIKE |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| Diffe | | | | | | | | |
| 10 *Metals Analysis (Crde): MTCA-5 | RCRA-8 Prior | ity Pollutants TA | Individual: A | a Al As D Do Co | 0.01000 | 5 11 11 11 | | |
| | rite Chloride | Sulfate Brom | | and the second second | 100000000000000000000000000000000000000 | re Hg K Mg I | un Mo Na (Ng | Рь 36 Эк 91 91 Т TI U V 🚳 |
| | | | | ate Ruoride samples are retained after | Ntrate+Ntrite 30 days) | | | Special Remarks: |
| Relinquished x- | 7/8/14 | | Received | oreas | Date/Time | 718 | 114 16 | :07 |
| Relinquished x | Date/Time | | Received | / | Deter Time | , | | |
| | | | Α | | | | | TAT-> Next Day 2 Day 3 Day (610) |